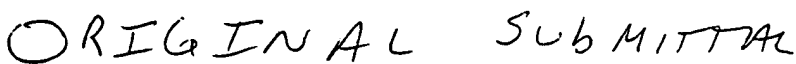


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- FIG 6

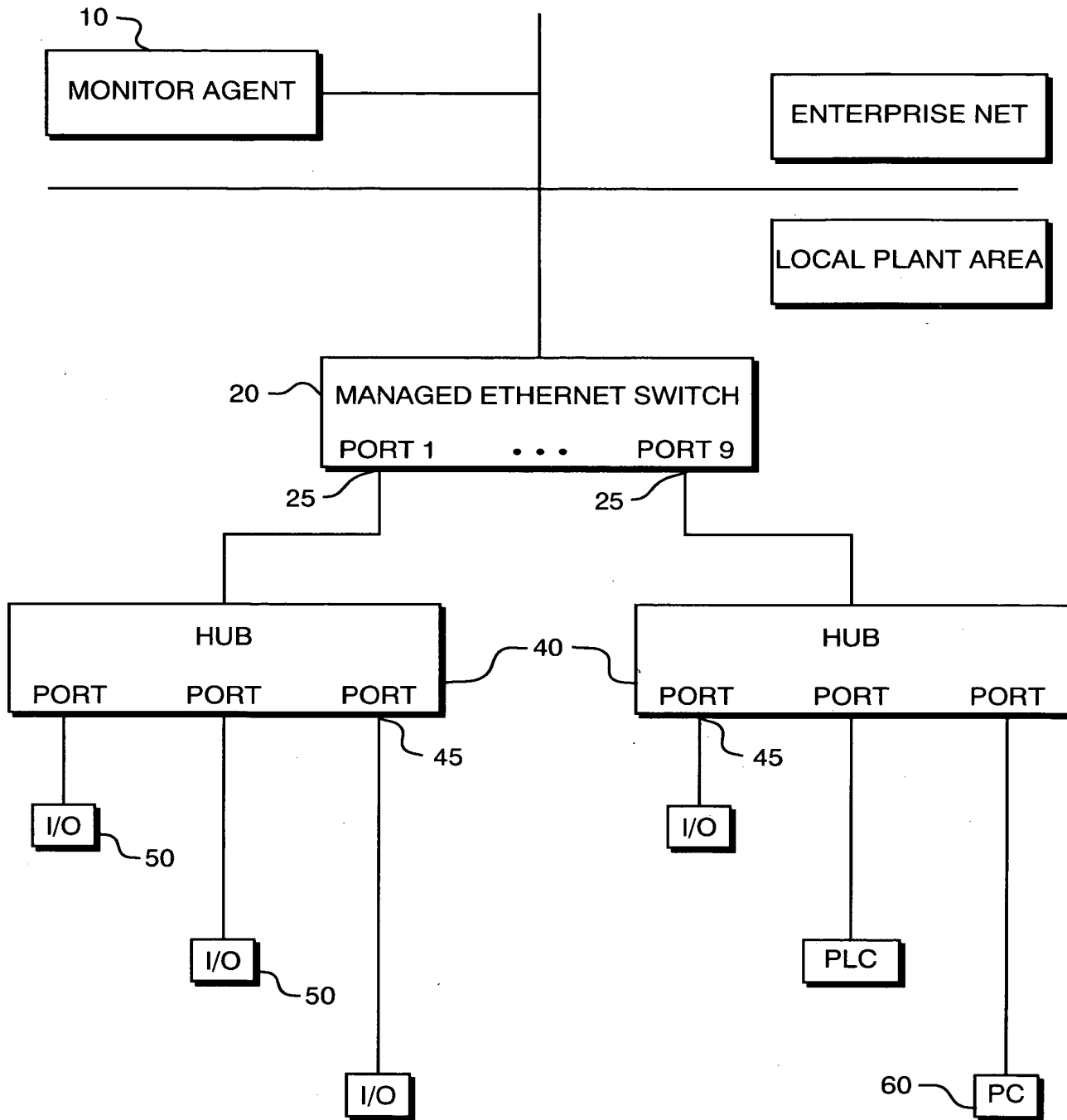


FIG. 1

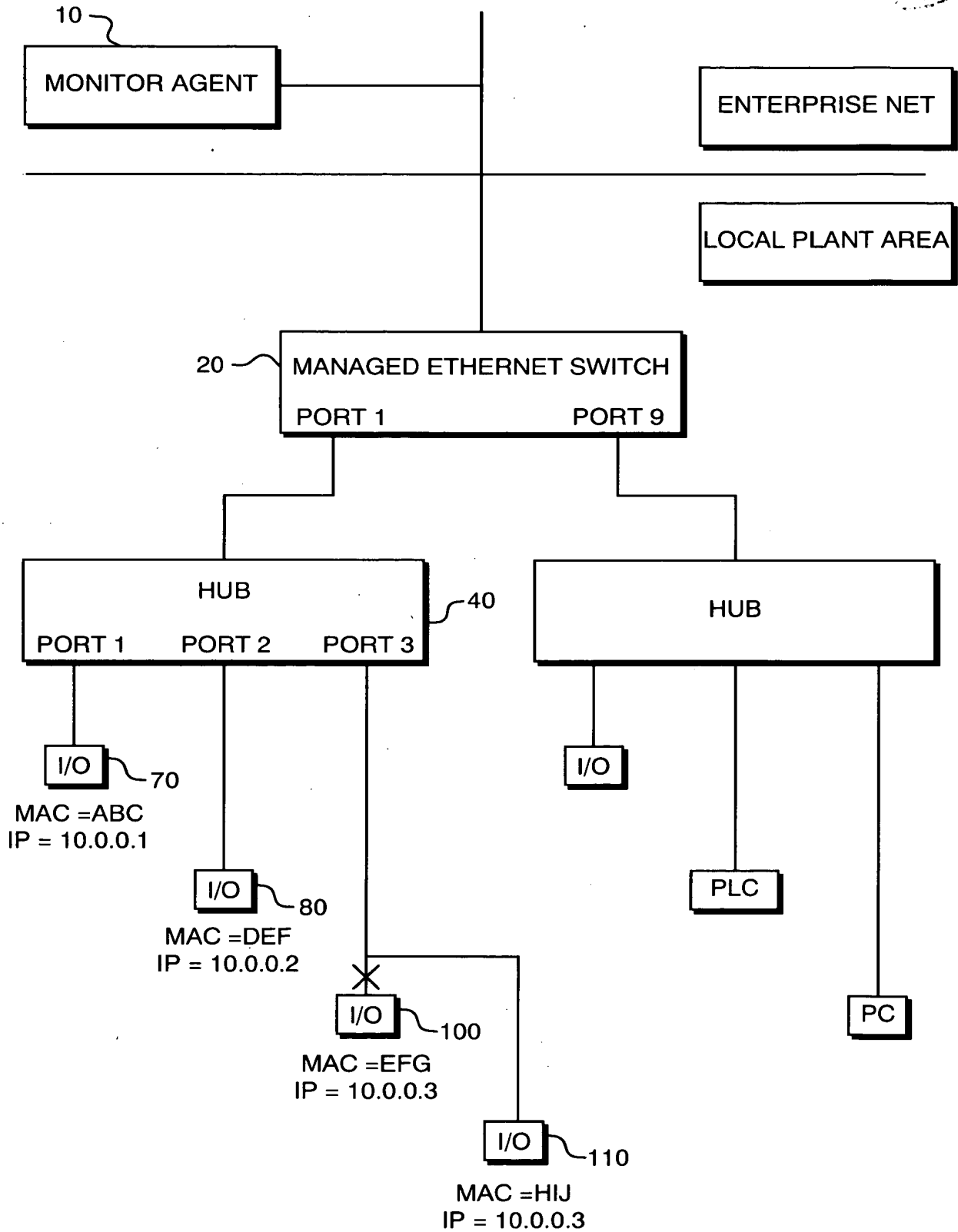


FIG. 2

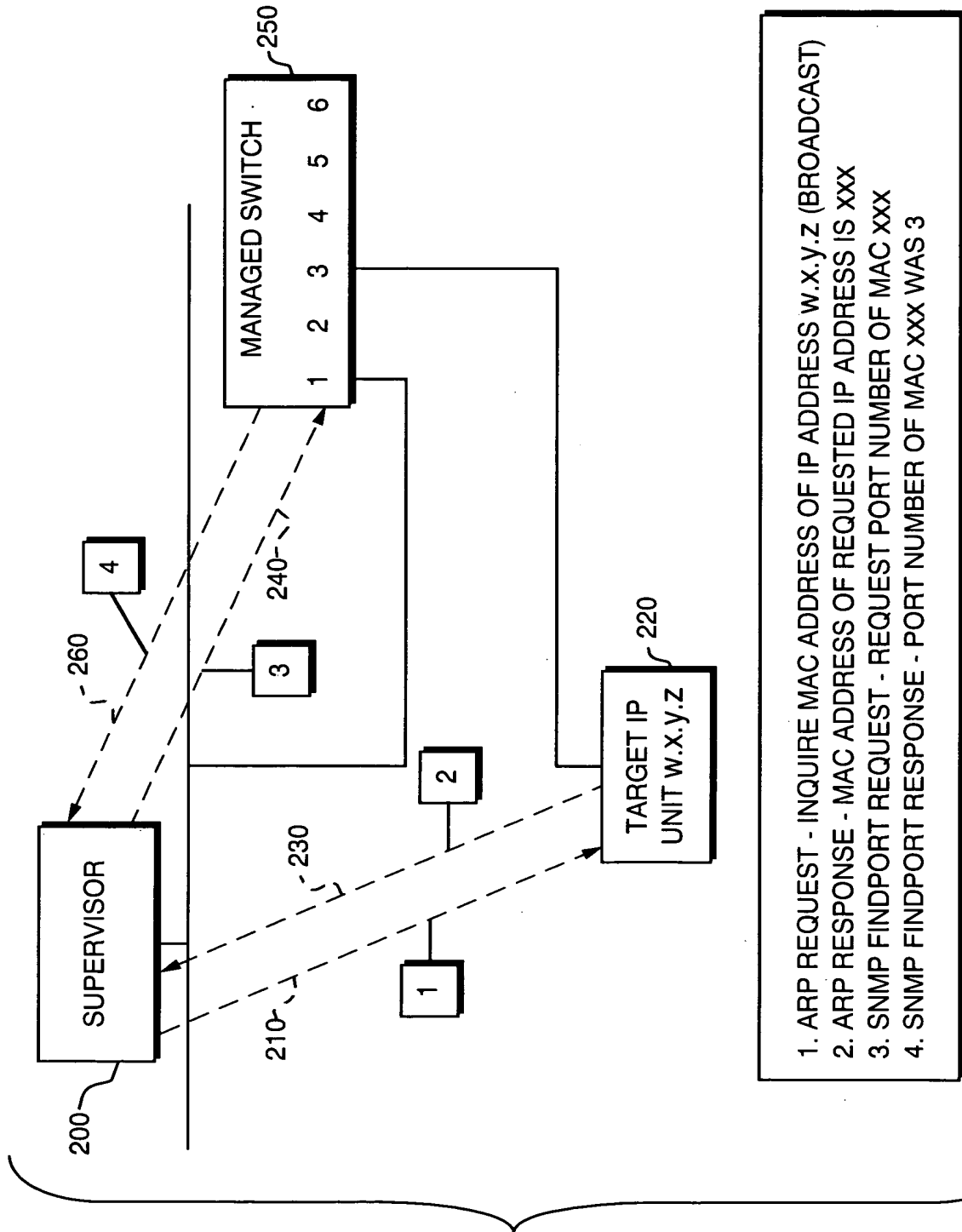
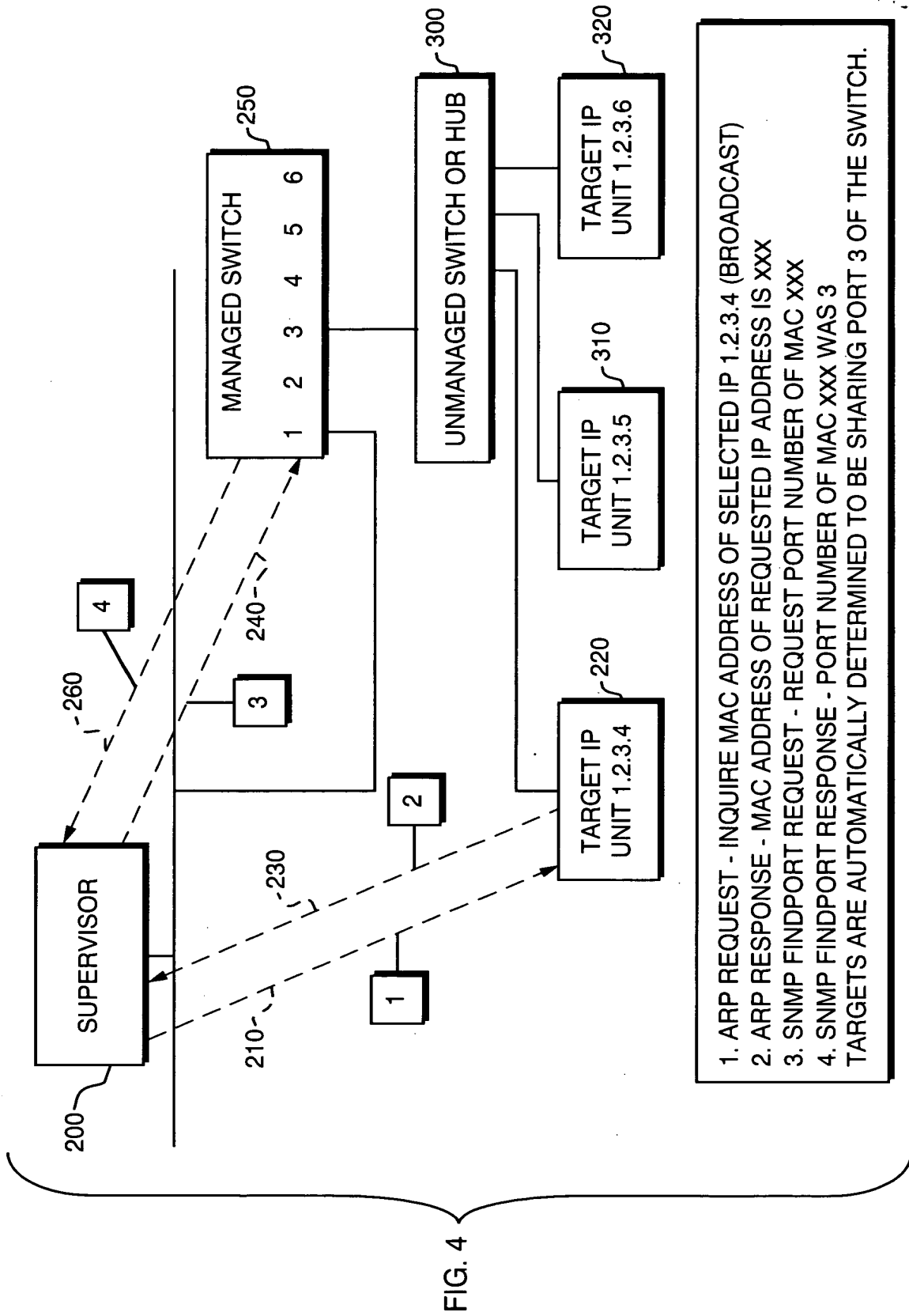


FIG. 3



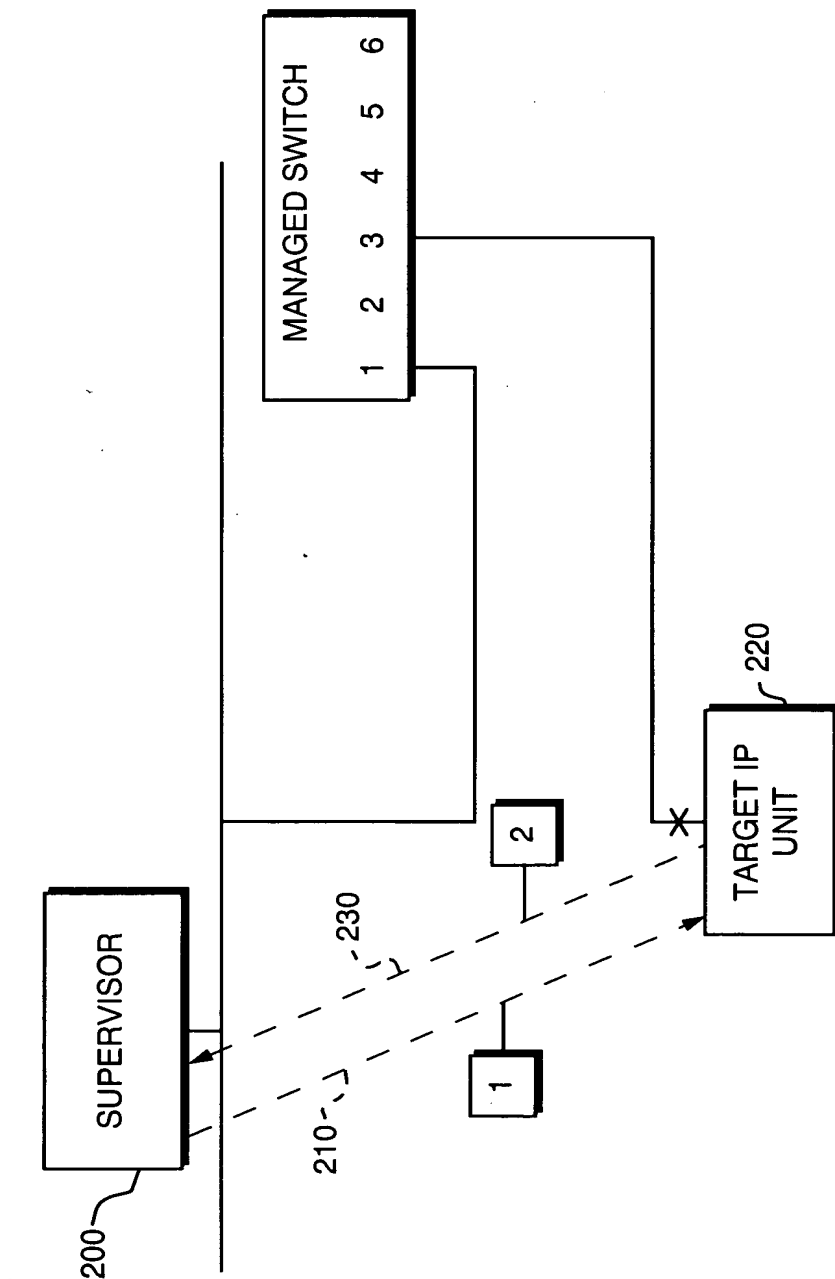


FIG. 5

1. ARP REQUEST - INQUIRE MAC ADDRESS OF SELECTED IP ADDRESS (UNICAST)
2. ARP RESPONSE - MAC ADDRESS OF REQUESTED IP ADDRESS IS XXX
IF NO RESPONSE IS RECEIVED, SIGNIFY THAT THE TARGET IP UNIT IS 'DOWN'.

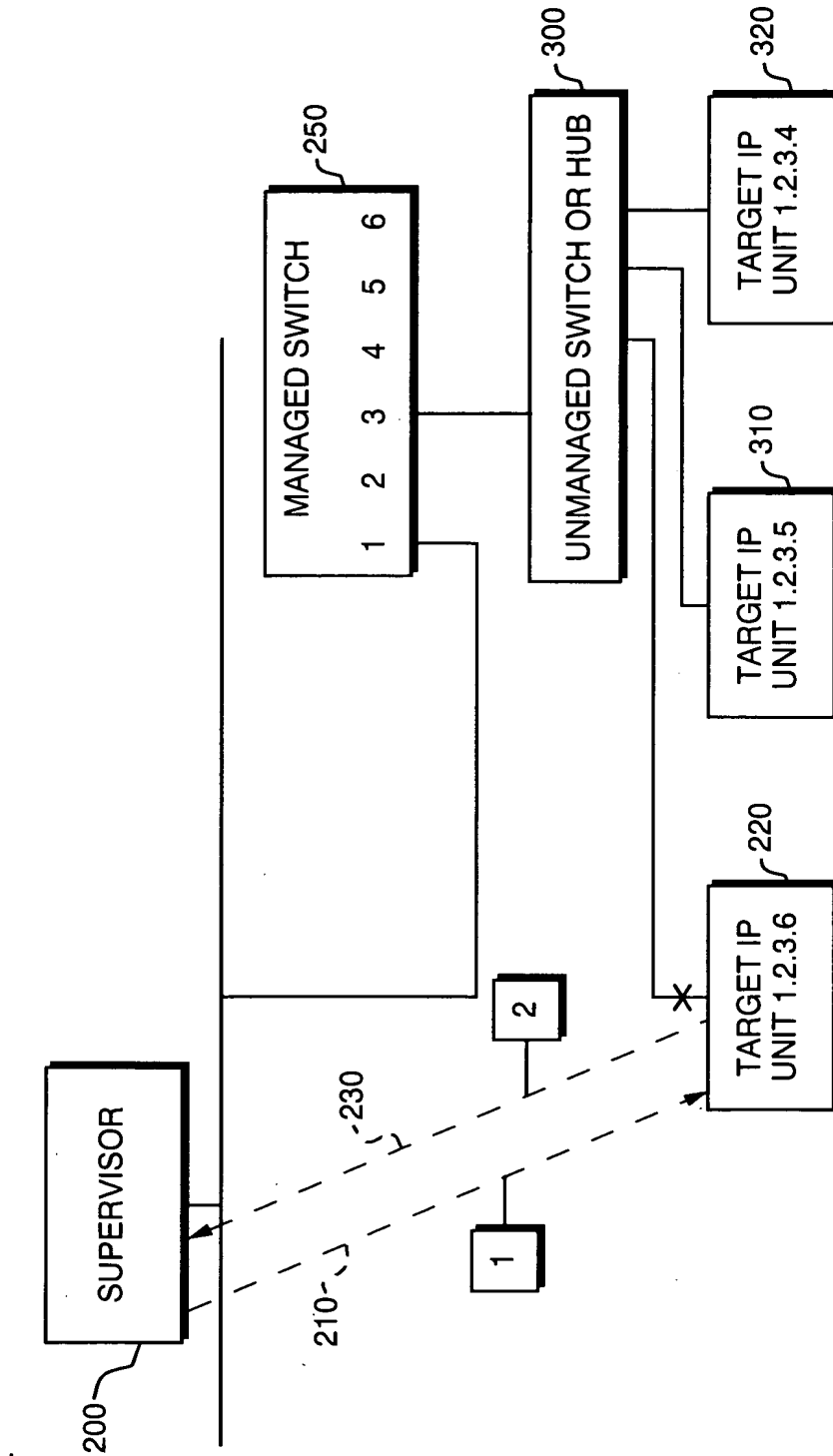


FIG. 6

1. ARP REQUEST - INQUIRE MAC ADDRESS OF SELECTED IP ADDRESS 1.2.3.6 (UNICAST)
 2. ARP RESPONSE - MAC ADDRESS OF REQUESTED IP ADDRESS IS xxx
- IF NO RESPONSE IS RECEIVED, SIGNIFY THAT THE TARGET IP UNIT IS 'DOWN'
- IF 1.2.3.6 IS THE ONLY UNIT ON PORT 3 OF THE SWITCH WHICH IS DOWN, THEN IT IS A CANDIDATE FOR AUTOMATIC REALLOCATION. IF ANY OF THE OTHER UNITS FOUND ON THIS PORT ARE ALSO DOWN, AUTOMATIC REALLOCATION WILL BE SUPPRESSED.

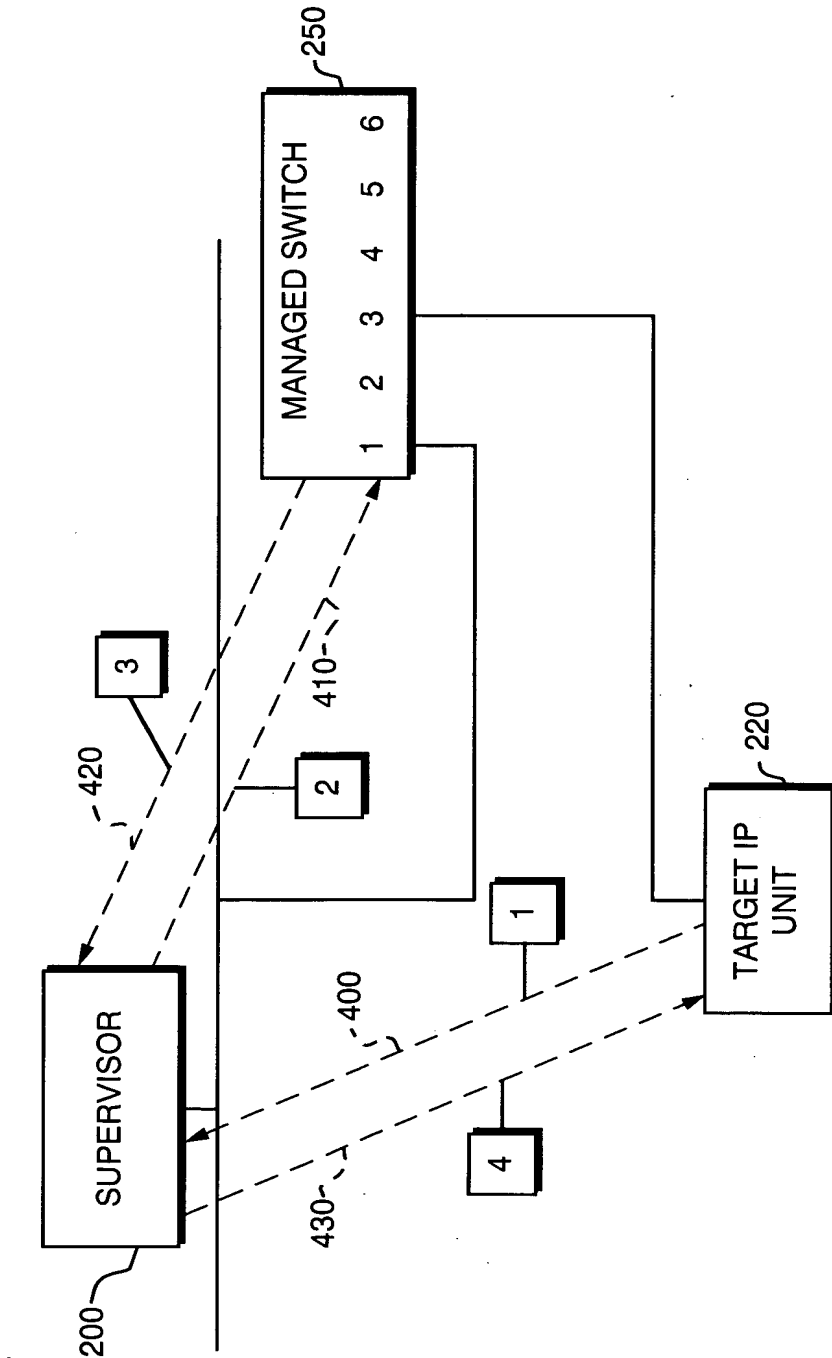


FIG. 7

1. BOOTP REQUEST - PLEASE SUPPLY IP ADDRESS FOR MAC xxx (BROADCAST)
2. SNMP FINDPORT REQUEST - REQUEST PORT NUMBER OF MAC xxx
3. SNMP FINDPORT RESPONSE - PORT NUMBER OF MAC xxx WAS 3
(MAC xxx ALREADY ASSOCIATED WITH IP AT THAT CANONICAL LOCATION - OK TO ASSIGN)
4. BOOTP RESPONSE - IP ADDRESS FOR MAC xxx IS w.x.y.z

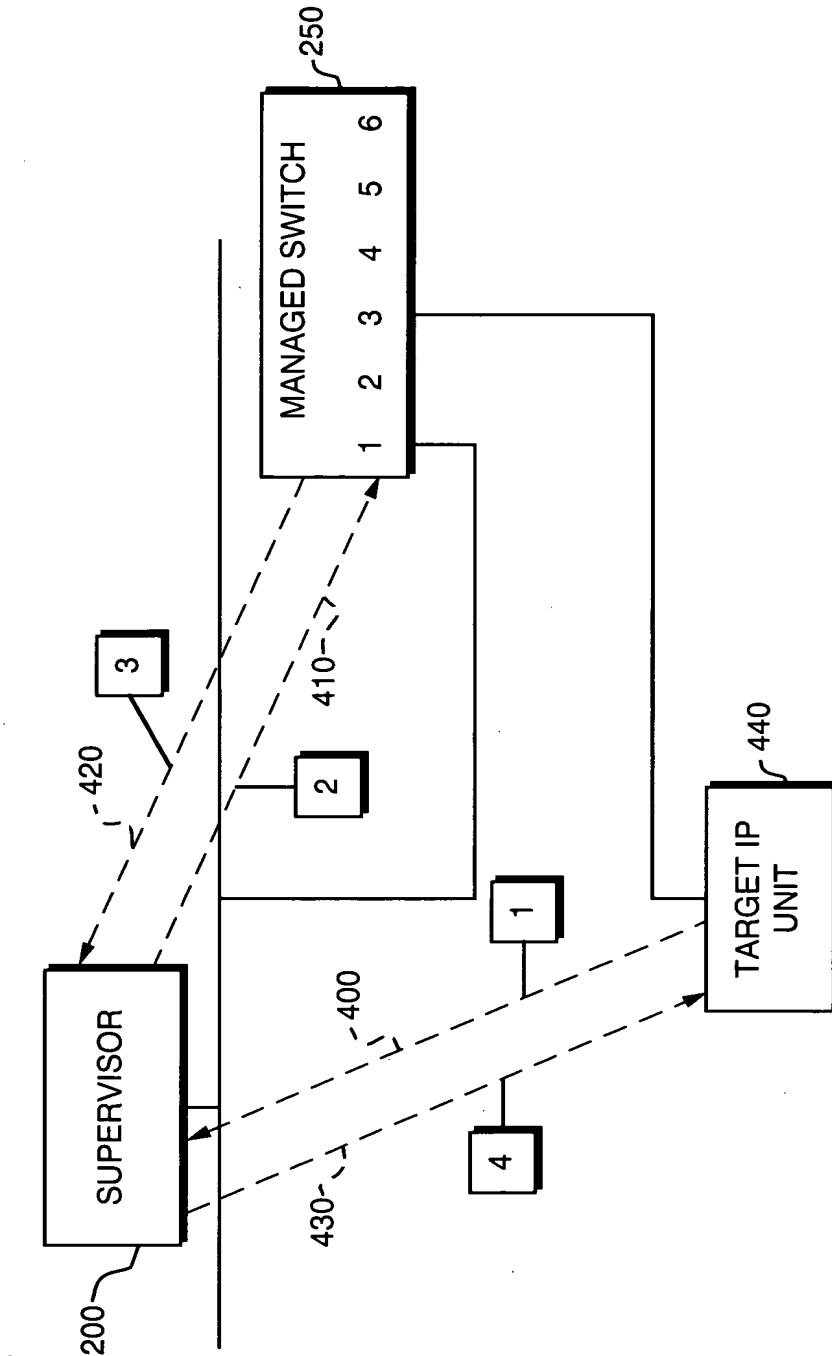


FIG. 8

1. BOOTP REQUEST - PLEASE SUPPLY IP ADDRESS FOR MAC xxx (BROADCAST)
2. SNMP FINDPORT REQUEST - REQUEST PORT NUMBER OF MAC xxx
3. SNMP FINDPORT RESPONSE - PORT NUMBER OF MAC xxx WAS 3
(MAC xxx NOT KNOWN. HOWEVER A SINGLE UNIT AT THAT LOCATION IS NOT CURRENTLY RESPONDING. UPDATE BOOTP EQUIVALENCE TABLE TO RECORD NEW IP ASSIGNMENT AND AUTHORIZE ASSIGNMENT)
4. BOOTP RESPONSE - IP ADDRESS FOR MAC xxx IS w.x.y.z